

WHAT IS CLAIMED IS

1. A personal messaging agent, comprising:

a user profile configured to store user preferences for processing messages;

a message filter configured to receive one or more messages, perform in-band processing
on the message based on the user preferences, and generate at least one event for triggering out-
5 of-band processing of the message; and

at least one external helper configured to perform the out-of-band processing of the
messages in response to the at least one event.

2. The personal messaging agent of claim 1, wherein the message filter includes:

a message manager configured to examine the message and modify the message
based on the user preferences, and

an event manager configured to send the at least one event to the at least one
5 external helper to trigger the out-of-band processing.

3. The personal messaging agent of claim 2, wherein the message manager includes:

a tokenizer configured to read the message and reduce the message to a set of
tokens.

4. The personal messaging agent of claim 2, wherein the message manager includes:
a plurality of message components corresponding to elements of the message, each of the message components being configured to recognize a specific portion of the message and modify the specific portion based on the user preferences.

5. The personal messaging agent of claim 4, wherein the message components include:
a header component configured to process a header portion of the message,
a separator component configured to process a separator portion of the message,
5 and
a body component configured to process a body portion of the message.

6. The personal messaging agent of claim 1, wherein the message filter is further configured to generate an enhanced message from the in-band processing and transmit the enhanced message for delivery to one or more mailboxes associated with one or more message recipients.

7. The personal messaging agent of claim 6, wherein the at least one external helper is configured to further process the message after delivery to the one or more mailboxes.

8. The personal messaging agent of claim 7, wherein the at least one external helper is configured to at least one of automatically generate a reply to the message, deliver the message to one or more alternate mailboxes, and notify the one or more message recipients of the delivery of the message.

9. A system for providing personal messaging services, comprising:

means for storing user preferences for processing at least one message;

means for receiving a message;

means for performing in-band processing on the message based on the user preferences to

5 create a processed message;

means for generating at least one event for triggering out-of-band processing of the processed message; and

means for performing the out-of-band processing of the processed message in response to the at least one event.

10. A method for providing enhanced messaging services, comprising:

receiving a message stream intended for a message recipient;

performing in-band processing on the message stream based on one or more preferences of the message recipient to create a processed message stream;

5 generating at least one event for triggering out-of-band processing of the processed message stream; and

performing the out-of-band processing of the processed message stream in response to the
at least one event.

11. The method of claim 10, wherein the performing in-band processing includes:
examining the message stream, and
modifying the message stream based on the one or more preferences of the
message recipient.
12. The method of claim 11, wherein the examining includes:
reading the message stream, and
reducing the message stream to a set of tokens.
13. The method of claim 10, wherein the performing in-band processing includes:
creating a plurality of message components that correspond to elements of the
message stream, each of the message components being configured to recognize a specific
portion of the message stream and modify the specific portion based on the one or more
preferences of the message recipient.
14. The method of claim 13, wherein the message components include at least a
header component, a separator component, and a body component; and
wherein the performing in-band processing further includes:

- 5 processing a header portion of the message stream by the header component,
processing a separator portion of the message stream by the separator component,
and
processing a body portion of the message stream by the body component.

15. The method of claim 10, further comprising:
transmitting the processed message stream for delivery as a message to one or more
mailboxes associated with the message recipient.

16. The method of claim 15, wherein the performing out-of-band processing includes:
processing the message after delivery to the one or more mailboxes.

17. The method of claim 16, wherein the processing includes:
at least one of automatically generating a reply to the processed message stream,
delivering the processed message stream to one or more alternate mailboxes, and notifying
the message recipient of the delivery of the processed message stream.

18. A computer-readable medium that stores instructions executable by at least one
processor to perform a method for providing personal messaging services, comprising:
instructions for performing in-band processing on a received message based on one or
more personal preferences of a message recipient to create a processed message;

5 instructions for generating at least one event for triggering out-of-band processing of the processed message; and

instructions for performing the out-of-band processing of the processed message in response to the at least one event.

19. The computer-readable medium of claim 18, wherein the instructions for performing in-band processing includes:

instructions for examining the received message, and

5 instructions for modifying the received message based on the one or more personal preferences of the message recipient.

20. The computer-readable medium of claim 18, wherein the instructions for performing in-band processing includes:

5 instructions for creating a plurality of message components that correspond to elements of the received message, each of the message components being configured to recognize a specific portion of the received message and modify the specific portion based on the one or more personal preferences of the message recipient.

21. The computer-readable medium of claim 18, wherein the instructions for performing out-of-band processing includes:

instructions for processing the processed message after providing the processed message for delivery to the message recipient.

22. A message arrival system, comprising:

a server configured to receive a plurality of message streams from a plurality of message senders, each of the message streams being destined for one or more message recipients;

5 a plurality of personal messaging agents configured to receive the message streams from the server, modify the message streams based on preferences of the one or more message recipients to create modified message streams, and output the modified message streams; and

a local delivery agent configured to receive the modified message streams and deliver the modified message streams as modified messages to one or more mailboxes of the one or more message recipients.

23. The message arrival system of claim 22, wherein the local delivery agent is further configured to generate status messages that indicate whether the deliveries of the modified message streams were successful.

24. The message arrival system of claim 23, wherein the personal messaging agents are further configured to receive the status messages from the local delivery agent and provide the status messages to the server.

25. The message arrival system of claim 22, wherein the personal messaging agents are configured to further process the modified messages after the local delivery agent delivers the modified messages.

26. An e-mail system, comprising:

a message arrival component including:

a server configured to receive an e-mail message from an e-mail sender and destined for one or more e-mail recipients,

5 a personal messaging agent configured to receive the e-mail message from the server, process the e-mail message based on preferences of the one or more e-mail recipients to create a processed e-mail message, and output the processed e-mail message, and

10 a local delivery agent configured to receive the processed e-mail message and store the processed e-mail message in one or more mailboxes associated with the one or more e-mail recipients; and

a message retrieval system configured to retrieve the processed e-mail message from the one or more mailboxes and deliver the processed e-mail message to the one or more e-mail recipients.

27. The e-mail system of claim 26, wherein the personal messaging agent is configured to further process the processed e-mail message after the local delivery agent stores the processed e-mail message in the one or more mailboxes.

28. The e-mail system of claim 26, wherein the personal messaging agent is configured to separate the processing of the e-mail message into in-band and out-of-band processing.

29. A method for performing personal e-mail services, comprising:
storing e-mail processing preferences for one or more e-mail recipients;
receiving an e-mail message from an e-mail sender and destined for one or more of the e-mail recipients;
5 processing the e-mail message based on the e-mail processing preferences; and
providing the processed e-mail message for delivery to the one or more e-mail recipients.

30. A plurality of personal messaging agents for providing enhanced messaging services, each of the personal messaging agents comprising:
a user profile configured to store user preferences of a message recipient for processing a message; and
5 a message filter configured to receive a message destined for the message recipient, process the message based on the user preferences to produce a processed message, and deliver the processed message to the message recipient.